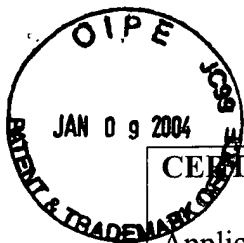


1742



CERTIFICATE OF MAILING BY FIRST CLASS MAIL (37 CFR 1.8)			Docket No. PES-0024-D
Applicant(s): SKOCZYLAS et al.			
Serial No. 10/604,890	Filing Date August 25, 2003	Examiner N/A	Group Art Unit 1742
Invention: HIGH DIFFERENTIAL PRESSURE ELECTROCHEMICAL CELL			

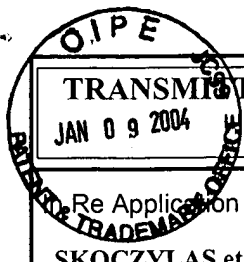
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Marianne S. Carello

(Typed of Printed Name of Person Mailing Correspondence)

Marianne S. Carello

(Signature of Person Mailing Correspondence)



TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.
PES-0024-D

Re Application Of:
SKOCZYLAS et al.

Serial No.
10/604,890

Filing Date
August 25, 2003

Examiner
N/A

Group Art Unit
1742

Title:

HIGH DIFFERENTIAL PRESSURE ELECTROCHEMICAL CELL

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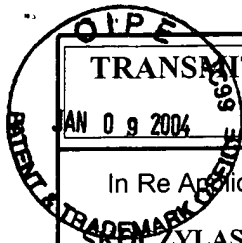
**Commissioner for Patents
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Alexandria, VA 22313-1450**

37 CFR 1.97(b)

1. ☒ The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

37 CFR 1.97(c)

2. ☐ The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:
- ☐ the statement specified in 37 CFR 1.97(e);
- OR**
- ☐ the fee set forth in 37 CFR 1.17(p).

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT****(Under 37 CFR 1.97(b) or 1.97(c))**Docket No.
PES-0024-D

In Re Application:

SKOCZYLAS et al.

Serial No.

10/604,890

Filing Date

August 25, 2003

Examiner

N/A

Group Art Unit

1742

HIGH DIFFERENTIAL PRESSURE ELECTROCHEMICAL CELL**Payment of Fee**

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

- ☐ A check in the amount of _____ is attached.
- ☒ The Director is hereby authorized to charge and credit Deposit Account No. **06-1130** as described below.
- ☐ Charge the amount of _____
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Marianne S. Carello

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Dated: **January 7, 2004**

David Arnold

Registration No. 48, 894

Cantor Colburn LLP

55 Griffin Road South

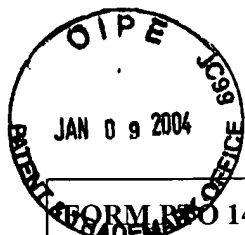
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10/604,890

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Applicant(s):
SKOCZYLAS et al.Filing Date:
August 25, 2003Group:
1742

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	1	3,992,271	11/16/76	Danzig et al.	204	129	03/03/75
	2	4,039,409	08/02/77	LaConti et al.	204	129	12/04/75
	3	4,146,438	03/27/79	de Nora et al.	204	1.5	03/07/77
	4	4,209,591	06/24/80	Hendriks	435	288	08/03/78
	5	4,272,352	06/09/81	Jizaimaru et al.	204	279	06/06/79
	6	4,389,297	06/21/83	Korach	204	252	05/13/81
	7	4,707,229	11/17/87	Dempsey et al.	204	129	12/22/83
	8	5,346,778	09/13/94	Ewan et al.	429	19	08/13/92
	9	5,837,110	11/17/98	Dean	204	240	12/17/96

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	10	WO 99/39840	08/12/99	PCT	B05D 5	12	02/09/99
	11	WO 99/39841	08/12/99	PCT	B05D 5	12	02/09/99
	12	WO 01/37359	05/25/01	PCT	H01M 4	00	11/17/00
	13	0791974 A1	08/27/097	EP	H01M 4	86	02/13/97
	14	0472922 A2	07/26/91	EP	H01M 8	18	03/04/92
	15	0406831 A1	01/09/91	EP	H01M 8	18	07/04/90
	16	19757320 A1	07/01/99	DE	H01M 4	92	12/23/97
	17	1,145,250	03/12/69	GB	H01M 27	00	07/12/67

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Patents, etc.)

	18		International Search Report, PCT/US00/42223, PCT Filed 11/17/00. Searched 04/22/02. 4 pages.
	19		"Prehumidification of Reactants for Flight Weight Hydrogen-Oxygen Fuel Cells." Arnold P. Fickett et al. National Meeting of the American Institute of Chemical Engineers. Detroit, MI. June 3-6, 1973.
	20		"Abstracts of the 1974 Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy." Cleveland, OH. March 4-8, 1974.
	21		"Hydrogen/Oxygen Fuel Cells with In-Situ Product Water Removal." Andrei Leonida. Hamilton Standard Div. United Technologies Corporation. Windsor Locks, CT. Pages 776-781.
	22		"Status and Applicability of Solid Polymer Electrolyte Technology to Electrolytic Hydrogen and Oxygen Production." W.A. Titterington. General Electric Company, Lynn, MA. NASA: 76N16782. 3 pages.
	23		"Design and Test Status for Life Support Applications of SPE Oxygen Generation Systems." Titterington et al. General Electric Company. New York: American Society of Mechanical Engineers. April 14, 1975.
	24		"An Electrochemically Regenerative Hydrogen-Chlorine Energy Storage System for Electric Utilities." Gileadi et al. <i>Journal of Power Sources</i> , 2 (1977/78). Elsevier Sequoia S.A., Lausanne. Pages 191-200.

Examiner

Date considered

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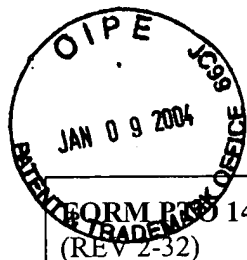
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Patents, etc.)

	25	"Aircraft On-Board Electrochemical Breathing Oxygen Generators." J.W. Harrison. General Electric Company. New York: American Society of Mechanical Engineers. April 15, 1975.
	26	"Status of Solid Polymer Electrolyte Fuel Cell Technology and Potential for Transportation Applications." McElroy et al. General Electric Company. IECEC 1982. CHI789-7/82/0000-0667. IEEE: 1982.
	27	"Prospects for Electrolytic Hydrogen for Chemical/Industrial Plants." Leonard J. Nutall. General Electric Co. <i>Proceedings Frontiers of Power Technology</i> . Oklahoma State University: October 9-10, 1974.
	28	"Feasibility Study of a Regenerative Solid Polymer Electrolyte Fuel Cell System Using Hydrogen/Chlorine Reactants for High Efficiency Energy Storage." Nuttall et al. <i>Alternative Energy Sources</i> . Miami: 1978.
	29	"An Assessment of the Solid Polymer Electrolyte Fuel Cell for Mobile Power Plants." J.F. McElroy. General Electric Co. <i>Proceedings of the 28th Power Sources Symposium</i> . Electrochemical Society, Inc. June 1978.
	30	"The Solid Polymer Electrolyte Fuel Cell for the Space Shuttle Orbiter." Lloyd E. Chapman. General Electric Co. <i>7th Intersociety Energy Conversion Engineering Conference 1972</i> . 729076. American Chemical Society.
	31	"Abstracts of Papers." <i>First Chemical Congress of the North American Continent</i> . Mexico City, November 30-December 5, 1975. Baltimore, MD: Port City Press, Inc.
	32	"Electrolytic Hydrogen Fuel Production with Solid Polymer Electrolyte Technology." Titterton et al. <i>8th Intersociety Energy Conversion Engineering Conference Proceedings</i> . University of Pennsylvania, August 13-17, 1973. NY: American Institute of Aeronautics and Astronautics.
	33	"Electrochemical Detection of H ₂ , CO, and Hydrocarbons in Inert or Oxygen Atmospheres." LaConti et al. <i>Journal of the Electrochemical Society</i> . Vol. 118, No. 3. Washington: Electrochemical Society. March 1971.
	34	"The Current Status of Ion Exchange Membrane Fuel Cells." Niedrach et al. Technical Information Series, General Electric Company, Report No. 71-C-303. Schenectady, NY: October 1971.
	35	"A Low Pressure Electrolyzer for the Next Generation Submarine." Leonida et al. Hamilton Standard Division. SAE Technical Paper Series - 921125. ISSN: 0148-7191. Society of Automotive Engineers, Inc. 1992.
	36	"Application of Solid Polymer Electrolyte Water Electrolysis for Bulk Hydrogen Generation." L.J. Nuttall. <i>Proceedings of Eighth Synthetic Pipeline Gas Symposium</i> . American Gas Assoc. Cat. No. L51176. 1976.

Examiner

Date considered

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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Patents, etc.)

	37		"Conceptual Design of Large Scale Water Electrolysis Plant Using the Solid Polymer Electrolyte Technology." L.J. Nuttall. <i>Conference Proceedings Vol. 11 - 1st World Hydrogen Energy Conference</i> . Miami Beach: 1976.
	38		Journal of the Electrochemical Cell Society, Vol. 125, No. 3, March 1978. Pages 74C-76C and 166C.
	39		"Field Results and Continuing Development of SPE Electrolyzers." Lizdas et al. Hamilton Standard. <i>Informal Proceedings - International Energy Agency Task IV Workshop Electrolytic Hydrogen Production</i> . DOE: 1973.
	40		"Industrial and Government Applications of SPE Fuel Cell and Electrolyzers." Coker et al. General Electric Co. Case Western Symposium on <i>Membranes and Ionic and Electronic Conducting Polymer</i> . Cleveland: 1982.
	41		"Solid Polymer Electrolyte Water Electrolysis Technology Development for Large-Scale Hydrogen Production. Final Report, October 1977-November 1981." NTIS: DE82010876. General Electric Co., 1981.
	42		"SPE Water Electrolysis Subsystem, Configuration and Operations Manual." Hamilton Standard Division, Electro-Chem Products. United Technologies Corporation: July 1991.
	43		"SPE® Hydrogen/Oxygen Fuel Cells for Rigorous Navel Applications." McElroy et al. Hamilton Standard. United Technologies Corporation. Windsor Locks, CT. Pages 1-5.
	44		"Operations and Maintenance Manual for the Sirf - SPE® Oxygen Generator Assembly (OGA)." Hamilton Standard. United Technologies Corporation: March 25, 1993

Examiner	Date considered
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